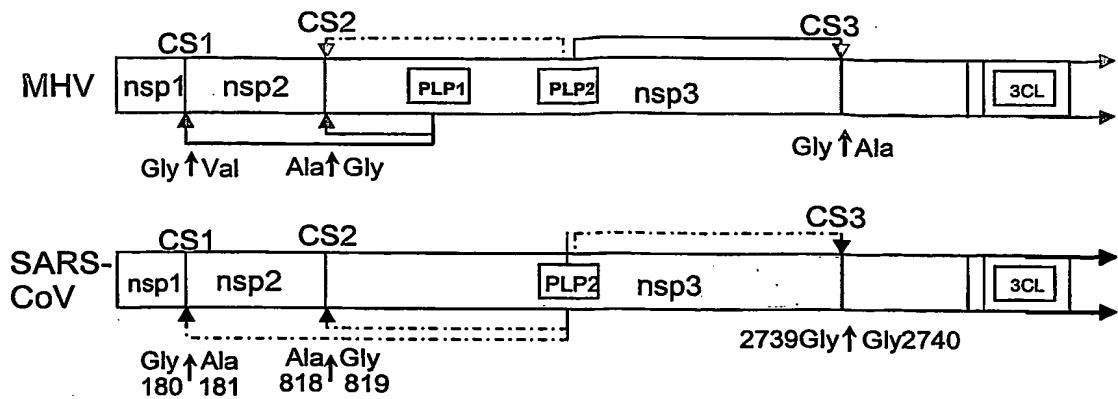


FIG. 1A-C

**Fig. 2**

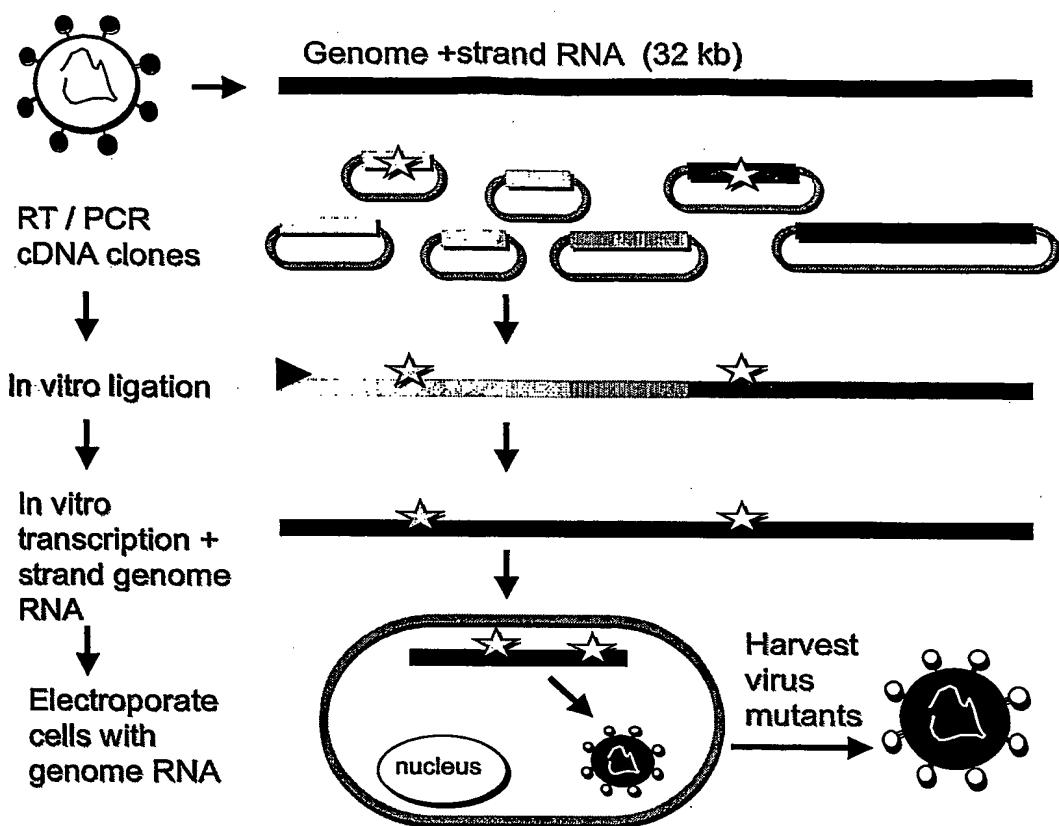
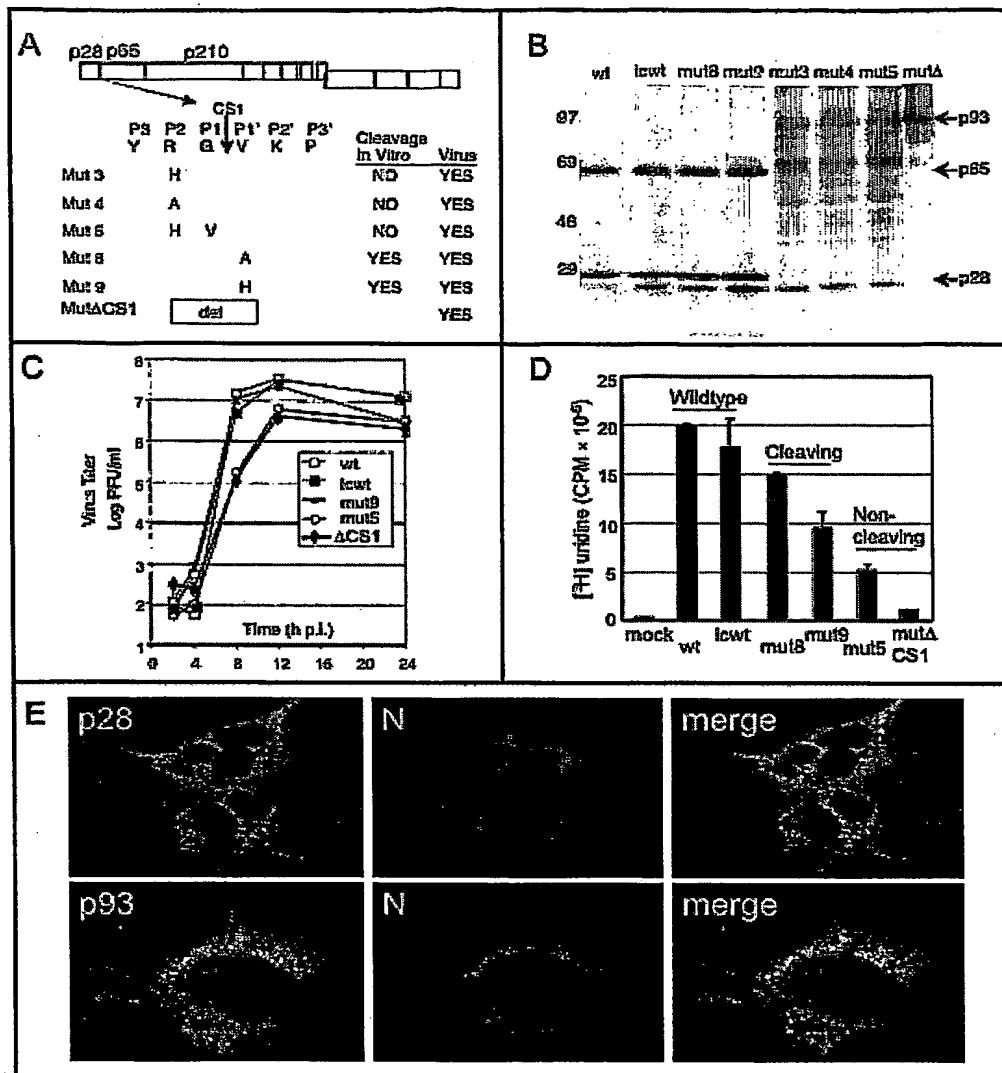
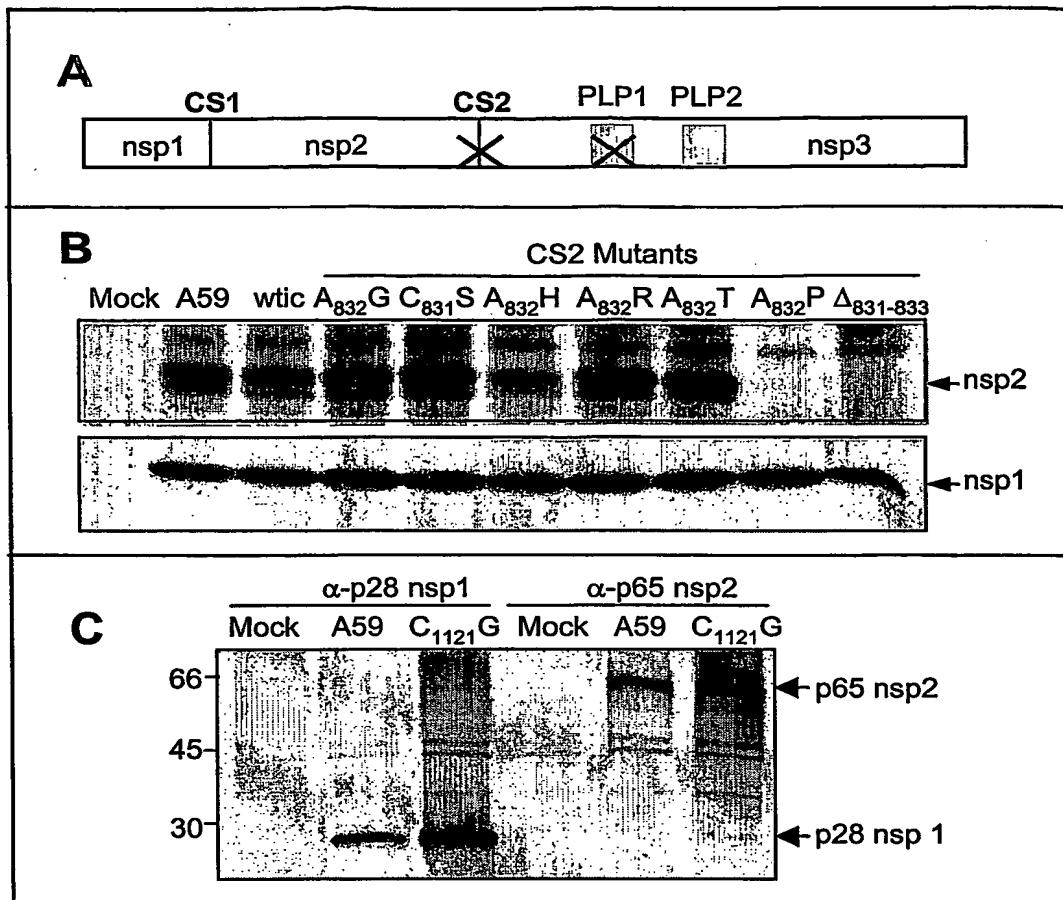


FIG. 3



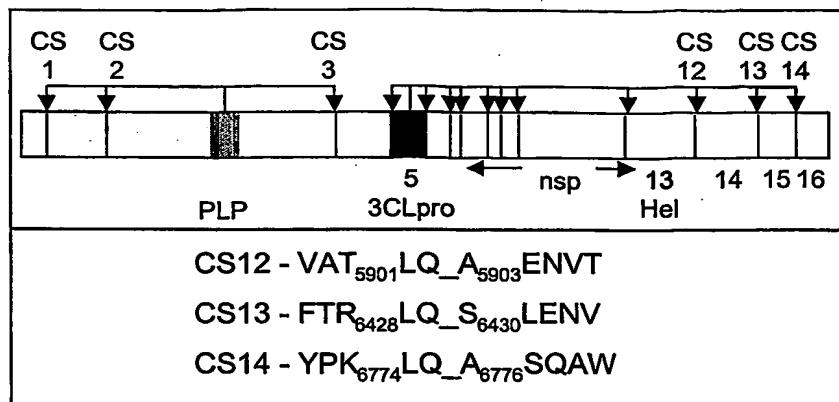
FIGS. 4A-E



FIGS. 5A-C

CS1 AB	CS2		CS3		
nsp1	nsp2		nsp3	nsp4	
	P3 P2 P1 P1̄ P2̄ P3̄			P3 P2 P1 P1̄ P2̄ P3'	
CS1A	AAT GGA GGT GCA GTC ACT			AAA GGG GGT GCA CCA ATT	
N G G A V T				K G G A P I	
CS1Δ AAT	————— GTC ACT			AAA————— CCA ATT	
P1VVP1'—————	GTC GTA (Val)—————			P1VVP1'————— GTC GTT (ValVal)—————	
P1'G—————	CGT (Gly)—————			P1'G————— CGT (Gly)—————	
	P3 P2 P1 P1̄ P2̄ P3'			P3 P2 P1 P1̄ P2̄ P3'	
CS1B	AAG AGA GGT GTC TAC TGC			AAG GGT GGT AAG ATT GTT	
K R G V Y C				K G G K I V	
CS1Δ AAG	————— TAC TGC			AAG————— ATT GTT	
P2HVP1—————	CAT GTT (HisVal)—————			P1VVP1'————— GTT GTC (ValVal)—————	
P1'A—————	CGG (Ala)—————			P1'A————— GCC (Ala)—————	
P1'H—————	CAT (His)—————				

FIG. 6

**FIG. 7**